

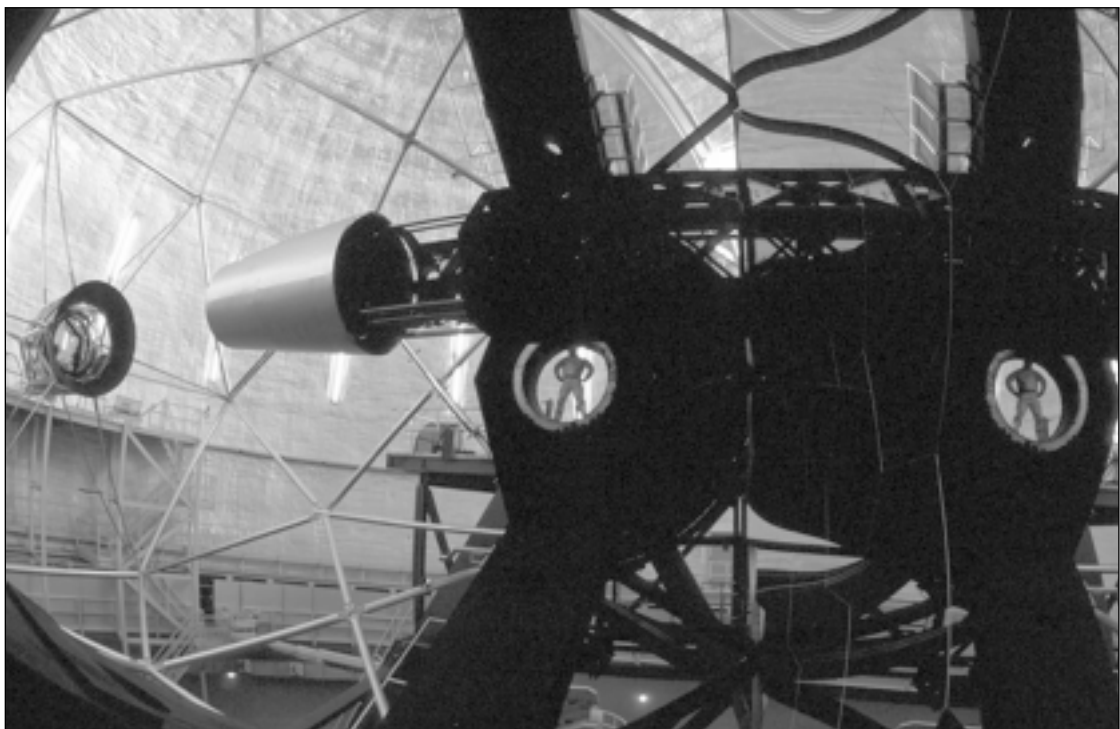


NEWSLINE

Published weekly for employees of Lawrence Livermore National Laboratory

Friday, April 27, 2001

Vol. 26, No. 17



A new coating process for telescopic mirrors is proving to be more durable than any previously used. The process was developed by Lab researchers and has been installed on a Keck mirror.

Lab gives Keck a protective coat

By Sheri Byrd
NEWSLINE STAFF WRITER

Two Lab scientists, Jesse Wolfe of Electronics Engineering Technology Division, and Norman Thomas of Chemistry & Material Sciences, together with their team of supporters, have patented a new ultra-thin silver coating for mirrors, which is proving to be far more durable than any previously used.

"Mirrors used in telescopes and lasers around the world, and in space, suffer significant efficiency losses due to the deterioration of the mirror coatings," said Thomas, principal investigator on the project. "On earth, numerous air-

borne factors, from smog to automobile pollutants to ocean salt, can rapidly affect the coatings.

"In space, the mirrors often deteriorate due to the impact of atomic oxygen and micrometeorites, and exposure to solar radiation, temperature extremes and other contaminants. Our new coating is showing signs of being virtually indestructible in terrestrial conditions, and we're very excited that it will be exposure-tested on the International Space Station as of this spring."

The coating was recently installed on a 22-inch mirror for use at the Keck Observatory in Hawaii, where, Thomas reports, "the astronomers are just ecstatic." The mirror coating

See **KECK**, page 8

Tarter says FY2002 budget could hinder threat reduction work

A strongly supported Stockpile Stewardship Program is needed to ensure the safety, security and reliability of the nation's nuclear arsenal over the long term, Director Bruce Tarter told the Senate Committee on Armed Services Wednesday. Likewise, strong and sustained support is needed in what Tarter called "the other side of the national security coin" — threat reduction activities such as nonproliferation, counterproliferation and counterterrorism.

Tarter appeared before the Senate committee to speak on behalf of the National Nuclear Security Administration's budget request for fiscal year 2002. His testimony provided an overview of the Lab's stockpile stewardship accomplishments in 2000 as well as the challenges that lay ahead. These accomplishments include the certification of the refurbishment of the W87, continued computations advances

See **TARTER**, page 8

Survey will be released to employees on May 29

A comprehensive survey to get input on and gauge workforce climate and needs, recruitment, retention, diversity and other issues is scheduled to be available for employees to take on May 29. The survey has been developed in conjunction with International Survey Research (ISR) the same firm that worked with the Lab for the 1995 Diversity Focused Survey.

This week a final draft of the survey questionnaire was presented to and approved by a committee, chaired by Jeff Wadsworth, deputy director of Science and Technology, that is overseeing the survey. The final version incorporates some changes recommended by an employee group that "red-teamed" an earlier draft and another group of employees who pre-tested the questionnaire, both during the last 10 days.

"We want to make sure as many interests as possible are addressed in this survey," said Jeff

See **SURVEY**, page 8

Lab caveman's tunnel vision leads to regional rescue efforts

By Sheri Byrd
NEWSLINE STAFF WRITER

Like most engineers and scientists working at the Lab, Mark Bowers spends a good deal of time "in the dark" before finding the right approach. But for Bowers, long hours inside a dark chamber are also a natural part of his off-duty hobby and pas-

sion — teaching and coordinating cave rescues.

Once admittedly suffering from fear of heights and enclosed spaces, Bowers never dreamed he would end up a national expert in cave rescues. He now volunteers as the western regional coordinator for the National Cave

See **CAVES**, page 5



Mark Bowers once suffered from a fear of heights and enclosed spaces. Now he is an authority on cave exploration.

Energy secretary speaks out against racial profiling

Editor's note: Following is a memorandum issued April 16 by Energy Secretary Spencer Abraham regarding the department's policy against racial profiling. The memorandum was addressed to all DOE and contractor employees.

"Through the committed and dedicated efforts of its employees, the Department of Energy plays a critical

See **MEMO**, page 5



New policy to assess how info is 'served'
— Page 3



OPSEC keeps Lab's information safe and secure
— Page 3



What's to know about ISSM?
Check your mail
— Page 8



LAB COMMUNITY NEWS

Weekly Calendar

Technical Meeting Calendar, page 4

Friday
27

The Employee Assistance Program is beginning a **support group for parents** who are attempting to manage the pulls between their children and job. Kay Gorsuch, EAP psychologist, will lead the group on the second and fourth Fridays of the month to assist with ideas, coping and resources for Lab employees, beginning today from noon to 1 p.m. (bring your lunch), in the conference room at Health Services (Bldg. 663). Contact: 3-6609.

Tuesday
1

The Employee Store is scaling back its operation. It will be closed Monday and will reopen today under the name, **Time Zone**. Services will include stamps, BART and Wheels tickets, discount tickets, greeting cards, LLNL logo attire and items, film processing, See's candy, UC's Apple Computer Higher Education Discount Program, PC/Apple software, and Apple warranty and repair service. The "Time Zone" will be open Monday through Friday, 11 a.m. to 3 p.m. It will move to a new location next to Bldg. 415 in June.

Thursday
3

The **UC Davis Instructional Television Program** offers Laboratory employees graduate-level engineering and computer science programs on-site via television. Claire Daughtry, UCD/ITV program manager, will discuss the program and answer questions at noon in Bldg. 571, room 2301. Attendees should feel free to bring their lunches. Contact: Kathy, 2-9335.

...

In keeping with the nation's observance of the **National Day of Prayer**, a gathering at the Lab will be held at noon in the Bldg. 543 auditorium. All employees and contractors are invited to participate. The National Day of Prayer is an annual event established by an act of Congress and signed into law in 1952 by President Truman. Contact: Harry Briley, 2-9238.

Friday
4

A representative from **California Casualty Insurance** will be in the Benefits Office. Appointments are required and may be scheduled by calling 2-9955. California Casualty offers individual rates to Lab employees by payroll deduction for auto and homeowner/renter insurance.



LAB TV

**BROADCAST
SCHEDULE**

The DDLS talk, "**Obtaining Productivity From the Internet**," by Cisco Systems Senior Vice President Howard Charney, will be broadcast on Lab TV Channel 2 on Thursday, May 3, at 10 a.m., noon, 2, 4, and 8 p.m., and Friday, May 4, at 4 a.m.

The writing's on the wall



SHERI BYRD/NEWSLINE

Professor Victor Stein (left), and Air Force Master Sgt. Scott Armstrong (right), from the Defense Threat Reduction Agency Russian language program at the Defense Language Institute in Monterey, tour the Lab Visitors Center. They were in Livermore for a full day of defense-related briefings from Lab staff on such topics as counterproliferation analysis, and material protection, control and accounting. Five other students from the institute also participated in the visit.

BRIEFLY

Presales for Cinco de Mayo lunches, tamales continues through today

Today is the last day to pre-order tamales before next Friday's Cinco de Mayo fiesta, sponsored by the Amigos Unidos Employee Networking Group.

Tamales are \$13/dozen and \$7/half-dozen. They will be available for sale on the day of the event for \$14/dozen and \$7.50/half-dozen. All orders will be available for pickup at the fiesta from 11:30 a.m. to 1 p.m. near the pool area.

Cinco de Mayo lunch plates may also be pre-ordered. Cost is \$6.50.

All proceeds go toward the Amigos Unidos scholarship fund.

To preorder tamales and/or lunch plates, contact: Marian Barraza, 3-7063, Bldg. 671; Jessica Barraza, 2-6750, Bldg. 1477; Michele Cardenas, 3-2796, Bldg. 571; David Castro, 3-7556, Bldg. 5477; Yahel De La Cruz, 4-3507, Trailer 3726; Michael Martin, 3-6580, Bldg. 551 East; Santiago Parra, 4-2811, Bldg. 332; Irene Ortega, 2-6350, Bldg. 113; or Rosa Yamamoto, 3-2004, Bldg. 1404.



Employees invited to fire up chili pots for Plant Engineering's June cook-off

Plant Engineering is holding its annual Chili Cook-Off on Thursday, June 7, featuring food, music, prizes and fun.

The cost of \$5 includes your choice of mild linguica or barbecued chicken, potato salad, chips, salsa, a drink, and of course, chili.

If you would like to enter your chili in the contest, contact

Florann Mahler, 2-9173.

To buy tickets, call Amelia Regacho, 3-2807.

Buenas Vidas looking for chili cooks for annual fund-raising event

The Buenas Vidas Youth Ranch invites Lab employees to participate in its 17th annual chili cook-off on Saturday, June 2, at Carnegie Park in Livermore.

Approximately 1,500 people attended last year's event and organizers are expecting more this year. The event is held from 10 a.m. to 4 p.m. and features food, games, salsa, crafts and microbrewers.

There is a \$35 entry fee for chili cooks. For more information or to volunteer, call 449-1177.

Newsline

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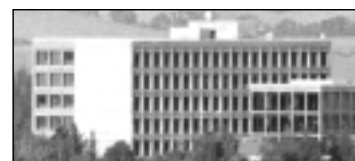
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AROUND THE LAB



OPSEC protects sensitive information at the Lab

By Sheri Byrd

NEWSLINE STAFF WRITER

Do you handle sensitive information in your job? The answer to this question, no matter what your job at the Lab, is probably yes, according to Liz Silva, assistant to the program manager in Operations Security (OPSEC).

"If you're not sure if what you're handling is sensitive information, ask your supervisor or manager. Sensitive information is not only classified information," Silva said. "It is anything at all that someone may want to use for adverse purposes. This certainly includes much of our work-related data here at the Lab, but it also includes each employee's personal information that could be misused by an identity thief."

The premise of the OPSEC program is that the accumulation of one or more elements of non-classified sensitive information or data could damage national security by revealing classified information. Intelligence collection and analysis is much like assembling a puzzle. The goal of OPSEC as a countermeasure program is to deny an adversary pieces of the puzzle.

Examples of non-classified sensitive work-related data include information marked Official Use Only, or In Strict Confidence, the intellectual property of the Lab or its partners, or other Business Sensitive items. Any of this information may be of interest to those that would misuse it, and should be protected as need-to-know.

To help Lab managers and employees understand OPSEC issues in their work environment, Silva and her colleagues offer several options.

"We can do an OPSEC briefing, review, or assessment of your workplace for you. We also have an OPSEC committee, which meets to share ideas from all areas of the Lab," Silva explained.

The 16-member, multi-disciplinary OPSEC committee meets monthly to share ideas on coping with OPSEC during project moves and other challenges.

"Committee members come from all areas, all fields in the Lab," said member Pam Poco of Chemistry & Materials Science. "We bring our concerns, our lessons learned, and share reports of

incidents within our departments. It's a very productive exchange of ideas and offering of suggestions."

Often, based on the committee's discussions, the OPSEC office issues a bulletin to share the information with the entire Lab population.

The OPSEC staff also uses sharp-eyed techniques when conducting an assessment at the request of a Lab manager.



"We don't come uninvited, but reviews and assessments are required by DOE for several operations and activities on site, and managers here are sensitive to this issue," Silva said. "We frequently take calls from those who welcome our advice and assistance to ensure their mission security."

Silva said common areas of concern are recycling, copy and fax machines. "Use paper shredders and be careful of leaving your originals behind," she said. "Make sure you are using the correct fax number, and call to make sure your receiving party has picked up your faxed message."

After an assessment, the assessment team typically drafts a report and based on that report, briefs the program of their observations. When appropriate, the out-briefing would identify open pathways to sensitive information, and the indicators of sensitive and classified activities that

may be present in the operation, and recommends cost-effective countermeasures to delay or deny exploitation as part of an overall risk management concept. Silva stressed that the purpose of the assessment is to help bring about improvement, not check for compliance. "This is strictly a fact-finding, not a fault-finding exercise."

On May 11, the OPSEC program is hosting an OPSEC executive seminar, a one-day overview of information analysis and assessment; and on May 14-18 a general OPSEC course, a week of detailed fundamentals, including a 12-hour practical exam.

"In the course the students practice adversarial techniques," Silva said. "The students are taken into work areas where they try to pick up simulated critical sensitive information left in open pathways, on bulletin boards, computer screens, desktops, etc., and from pieces of conversation. Then they compile the gathered information and see what puzzle pieces they can fit together for a picture of the organization's mission. There is still room in the executive seminar, but the course has been filled. However, given the enthusiastic level of interest, we may be hosting it again in the near future."

"OPSEC isn't something that a manager can do once and consider it done," continued Silva. "The nature of information constantly changes. What is not sensitive today can become sensitive very quickly as our missions change. Managers need to continuously re-evaluate their OPSEC needs."

Particularly vulnerable times for OPSEC can be at the start and termination of projects, Silva said, as equipment and information are filed, archived and moved from building to building.

Employees with questions about information security may contact their organization's OPSEC representative, check the OPSEC Website at http://cobweb.llnl.gov/llnl_only/opsec, or call the OPSEC program at 2-5000 or 2-3195.

Silva stressed that OPSEC is entirely dependent upon employee awareness. "OPSEC is not something we can do for you," she said. "Everyone must do their part."

New policy on Yellow Network's Open Access Information Servers



CIO UPDATE

TED MICHELS

The Computer Security Council has approved a new policy, P-2400: "Open Access Information Servers on the Yellow Network." This policy establishes the requirements for all information servers on the Yellow Network (i.e., Restricted Open LabNet) that allow users access without authentication. This policy imposes three requirements on servers covered by this policy:

- The responsible program must conduct an informal risk assessment, weighing the benefits against the risks of providing open access to the information contained on the server for programmatic purposes.
- Information on the server must be approved for open access through the LLNL Review and Release process that is managed by the Technical Information Department (TID).
- The server must be registered as an anonymous server in the Unclassified Device

Registration (DevReg) database.

Benefits

Open access information servers represent a useful part of the functionality that LLNL provides to its users who need to share files. However, with the approximately 10,000 regular employees, participating guests, and supplemental employees who have access to LLNL's Yellow Network, information made available to this community may be considered "publicly released" for intellectual property purposes. TID's Review and Release approval process is essential in screening out information that is subject to access restrictions related not only to classification, but also to export control, patents and industrial partnerships. Hence, this requirement protects LLNL's business interests as well as supporting the responsibility to control access to sensitive programmatic information.

Registration in LLNL's institutional Unclassified Device Registration (DevReg) database assures that open-access servers are established only after a conscious risk-based decision, and that system administrators have an opportunity to properly educate the owners of the information.

This policy is also intended to increase awareness of other file-sharing alternatives that are more secure than open-access servers, such as using programmatic servers requiring authenticated access or other document-sharing tools that provide individual authentication and detailed audit trails.

Implementation

LLNL provides institutionally maintained open-access services, including FTP and Web, that are strongly recommended by this policy. If this is not possible, the supporting documents, G-2400 and R-2400, for this policy include considerations for performing the informal risk assessment and Q&A about what constitutes an open access server. The policy and supporting documents are posted at <http://www-r.llnl.gov/cso/Pubs/u-docs/u-home.html>. Inquiries about the use of institutional open-access services should be directed to Computer Security Operations.

Ted Michels is the principal deputy associate director for Computation and LLNL's acting chief information officer (CIO).



NEWS YOU CAN USE

TID now provides access to all UC Berkeley libraries

The TID Library has a process that provides LLNL employees access to virtually all UC Berkeley libraries, except the Law Library.

How it works

LLNL employees who need access to the UC Berkeley libraries may pick up an application for a library card from Irma Ramirez in Trailer 4727, room 1236. Fill out the application and send it to Ramirez at L-611. You will receive your library card two weeks after receipt of your completed application. If you need same-day access, take the completed application to the DOE Library (main) Circulation Desk at UCB.

What is the cost?

The library card is free, but you are responsible for any late fees incurred.

Additional information

Students at UC Berkeley and UC Davis work with staff in the TID Library to fill requests for materials located at the Berkeley or Davis libraries. LLNL employees may request book loans or photocopies of journal articles through this service. Requests are normally filled within 48-72 hours.

If you check out books while at UC Berkeley or UC Davis, it is your responsibility to return them to those campuses. However, if you borrow books through the TID Library, the library will return them.

For more information contact Irma Ramirez at 2-7563 or ramirez25@llnl.gov.

INTERNAL TRANSFER OPPORTUNITIES

Tag	Classification	Title	Organization
BO-1876	105.1	Associate administrator	Business Services Department
ME-2009	105.1	Associate administrator	Mechanical Engineering
NA-1895	105.2	Administrator	NAI
PT-2059	105.3	Senior administrator	Physics & Advanced Technologies
SS-2075	150.2	Senior resource analyst	Safeguards & Security Department
LS-2021	196	Directorate assurance manager	Laboratory Services
NA-1915	196	Executive staff member	NAI
CH-1920	200	Program element leader	Chemistry & Materials Science
LS-2017	200	Directorate facilities manager	Laboratory Services
LS-2022	200	Directorate assurance manager	Laboratory Services
ME-2077	200	Deputy division leader	Mechanical Engineering
DT-2005	249	Engineer	Defense & Nuclear Technologies
EE-1922	249	Electronics engineer	Electronics Engineering
ME-1932	249	Mechanical engineer	Mechanical Engineering
ME-2012	249	Deputy facility manager	Mechanical Engineering
EE-2064	256	Statistician	Electronics Engineering
EZ-2069	270	Physicist	Energy & Environment
PT-1913	270	Experimental physicist	Physics & Advanced Technologies
PT-1985	270	Physicist	Physics & Advanced Technologies
EE-2074	285/249	Computer scientist/engineer	Electronics Engineering
AI-1954	285	Computer scientist	Administrative Information Systems
CO-1780	285	Computer scientist	Scientific Computing & Communications
CO-2079	285	Computer scientist	Scientific Computing & Communications
ME-1943	339.2	Supervisor	Mechanical Engineering
ME-2043	339.2	Senior engineering associate	Mechanical Engineering
PE-2032	368.1	Construction coordinator	Plant Engineering
ME-1887	405.3/4	Administrative specialist III/IV	Mechanical Engineering
BS-1928	405.3	IRB office secretary	Biology & Biotechnology Research
DT-2039	405.3	Administrative assistant	Defense & Nuclear Technologies
EE-2087	405.3	Administrative specialist III	Electronics Engineering
EP-1951	405.3	Administrative specialist III	Environmental Protection
ME-1814	405.3	Administrative specialist III	Mechanical Engineering
DT-2106	405.4	Administrative specialist IV	Defense & Nuclear Technologies
ME-2048	405.4	Administrative specialist IV	Mechanical Engineering
PT-2060	405.4	Administrative specialist IV	Physics & Advanced Technologies
PM-2042	462.1	Material handler	Procurement & Materiel
DT-2006	502.3	Senior scientific technologist	Defense & Nuclear Technologies
AI-2054	525.2/3	Computer support technologist	AIS
ME-1946	533.3	Senior technologist	Mechanical Engineering
PE-2057	862.1	Maintenance mechanic	Plant Engineering

Technical Meeting Calendar

Friday 27
INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS
"The Photographic Sky: Lessons Learned After the First 18 Tbytes," by Dave Monet, U.S. Naval Observatory (USNO). Noon, Bldg. 319, room 205 (open area). Contact: Joanna Allen, 3-0621.

MATERIALS SCIENCE & TECHNOLOGY
"Ancient and Modern Laminated Composites," by Jeffrey Wadsworth, LLNL. 3:30 pm, in Bldg. 235, room 1090. Coffee and cookies will be served at 3:20 p.m. Foreign nationals may attend if an appropriate security plan is on file. Contact: Thomas E. Felter, 2-8012.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH
"Global Data Distribution in Software Distributed Shared Memory Systems" by David Lowenthal, University of Georgia.11 a.m., Bldg. 451, room 1025. Contacts: Frank Mueller, 4-3642, or Leslie Bills, 3-8927.

CHEMISTRY & MATERIALS SCIENCE
"Aerosol Studies Using Thermal Desorption Particle Beam Mass Spectrometry," by Herbert J. Tobias, University of California, Riverside. 10 a.m., Bldg. 151, room 1209 (Stevenson Room, uncleared area). Contacts: Eric Gard, 2-0038, or Bonnie McGurn, 3-2764.

Monday 30
PHYSICS & ADVANCED TECHNOLOGIES
"Adaptive Optics Development: A 30-year Personal Perspective," by David L. Fried, AFRL/Phillips Research Site. 2:30 p.m., Bldg. 219. room 163 (open area). Contact: Robin Sachau, 2-3457.

UC DAVIS, DEPARTMENT OF APPLIED SCIENCE
"On the Origin of the Solar Transition Region," by Margarita Ryutova, Lockheed Martin Solar & Astrophysics Laboratory & LLNL Institute for Geophysics & Planetary Physics (IGGP). 4 p.m., Bldg. 661 (Hertz Hall), room 7 (open area). Refreshments served at 3:30 p.m. for a "meet-the-speaker" session before seminar and at 5 p.m. after the seminar. Contact: Estelle Miller, 2-9787.

Thursday 3
H DIVISION
"Electronic Excitations in Metals and Semiconductors: Ab Initio Studies of Realistic Many-Body Systems," by Wei Ku, University of California, Davis. 2 p.m.,Bldg. 319, room 205 (open area). Contact: Andy McMahan, 2-7198, Nancy Kliment, 2-0976.

INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS
"Driving the Gravity-Mode Pulsations in Gamma Doradus Variable Stars," Joyce Guzik, Los Alamos National Laboratory.Noon, Bldg. 319, room 205 (open area). Contact: Joanna Allen, 3-0621.

ENERGY & ENVIRONMENT
The Center for Global Security Research series on Environmental Security and International Water Crisis, featuring "The Ingenuity Gap: Can We Solve the Problems of the Future?" by Thomas Homer-Dixon, University of Toronto, Canada. 10 a.m., Bldg. 170, room 1091 (uncleared area). Contacts: Richard Knapp, 3-3328, or Eileen Vergino, 2-3907.

Friday 4
H DIVISION
"Femtosecond Structural Changes in Solids and Clusters," by Martin Garcia, Institute for Theoretical Physics, Freie Universit at Berlin, Germany. 10 a.m., Bldg. 319, room 205 (uncleared area). Contacts: Giulia Galli, 3-4223, or Darlene Klein, 4-4844.

INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS
"The Internal Structure of the Sun and Helioseismology," by Joyce Guzik, Los Alamos National Laboratory. Noon, Bldg. 319, room 205. Contact: Joanna Allen, 3-0621.

The deadline for the next Technical Meeting Calendar is noon, Wednesday, May 2.

NEWS OF NOTE



CAVES

Continued from page 1

Rescue Commission (NCRC), serving as the central contact for training of caving enthusiasts and liaison with emergency services throughout California, Nevada and southern Oregon.

“In 1984, a friend suggested we join a campus caving trip at Georgia Tech in Atlanta,” he recalled. “I agreed. When we got there, it was just a hole in the ground. The first guy slithered in feet first, then disappeared. As I went in, I found a 30-foot mudslide that led to a huge open cave. On the very next trip, I had to rappel down a 75-foot cliff in a cave. After doing that, I had overcome my fears and I was hooked.”

Bowers said that other than the amazing scenery, he enjoys caving most because of the connections he makes with the people involved. “Caving grottos are fun, trustworthy groups,” Bowers said. “They place their lives in each other’s hand every time they go out.”

After moving to Livermore in 1987 to begin working at the Lab, Bowers began to enjoy the many area caves with the East Bay’s Diablo Grotto (caving group), part of the National Speleological Society (NSS).

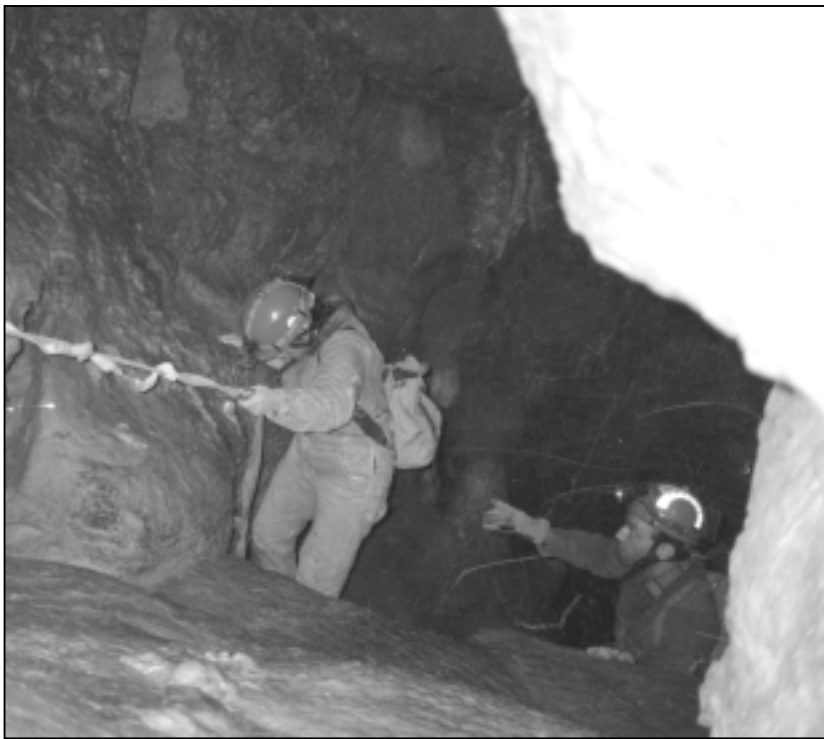
Then, on a grotto outing in 1991, Bowers and his fellow cavers began discussing a sobering topic. “We were over three miles from the nearest road, over two hours from the nearest paved road, and over four hours from the nearest town,” Bowers said. “We started talking about what would happen if any of us became injured or sick, and how local emergency services seldom know the location of caves or how to properly conduct a cave rescue.”

It was then that Bowers contacted the NSS’ National Cave Rescue Commission (NCRC), and began to receive and coordinate training through the western region for his own grotto and others in the area.

From 1992 to 1995, as a member of the Amador County sheriff’s department volunteer search and rescue team, Bowers found himself with the contacts to help establish and maintain links between the cave rescue experts and the Northern California search and rescue resources.

“After a few years,” Bowers explained, “I had the training, the contacts and the experience to best serve as the regional coordinator. I’ve been in that job since 1999.”

The NCRC is not itself a rescue team. Its national mission is to provide ongoing training to local grot-



Mark Bowers (right) conducts routine rescue training with his fellow cave dwellers. Bowers heads up western regional rescue efforts.

tos in the form of skills instruction and mock rescues, and to provide a register of trained cavers who can assist EMS when needed.

Bowers stressed the difference between cave rescue and underwater cave or mine rescue. “Those are entirely different areas of expertise,” he emphasized.

Recalling his most difficult training exercise, Bowers said, “I sat with the ‘victim’ at the bottom of a 350-foot drop for 22 hours, deep inside a cave, while rescuers managed the necessary equipment to bring her out with a (simulated) broken femur.”

Long hours, days and weeks can be typical for cave rescues, as rescuers must contend with maneuvering rescue equipment and victims through small spaces, cold temperatures, water and sheer cliffs. All this while maintaining the NCRC’s pledge to preserve caves in their original, pristine conditions.

Caving groups often recede so far back into a cave that they may spend the night there, making potential rescues long and difficult. In the case of severe injuries and the single-body size spaces often explored by cavers, “even one hour in could mean days to get them out,” Bowers said.

Fortunately, Bowers and his qualified trainers do their jobs extremely well. Actual rescues are very rare in the West, as the grottos are so well trained.

“Also, the locations of most caves, and all technical caves, are kept very secret in the West,” Bowers said. “The caves are cared for and overseen very pro-

tectively by the cavers. Most of our rescues are actually in public caves, like Lava Beds National Monument. A typical rescue would be taking in a team with a stretcher and bringing out a tourist with a twisted ankle.”

Although, he added, rescues can be for any reason: cavers can become ill, injured, lost, stuck or just panicked.

The long after-work hours and numerous weekends spent on his NCRC duties are a labor of love, and a family affair for Bowers.

“I love technical caving, love mock rescues and even love those successful rescues that aren’t too difficult,” he said. However, most of his volunteer hours are spent on the administrative details of running a tri-state operation.

“I maintain a register of trained people, do the training and know the location of all major caves,” Bowers continued. “I am the contact for all emergency services, sheriff’s departments, fire departments, etc., for any cave rescue. Then I call the local team to deploy.

“I have to provide the leadership to keep a 700-member all-volunteer organization working the way it’s supposed to,” said

Bowers. “That can get tiring, but knowing we have the training, people and other resources to keep caving safe makes it worth it.”

Bowers’ wife and two teenage children often accompany him on weekend training sessions. “My wife enjoys the easier ones, and as the kids get older, they are receiving more and more training, and are now able to enter some of the less technical caves with me,” explained Bowers. “But they’re not involved in rescue.”

A minor downside of the job, Bowers related, is that it often proves quite thankless. “Victims and their families are typically very embarrassed after a rescue and just want to leave as soon as possible,” he said as he rolled his eyes skyward. “But we know how much our work matters, and how important it really is.”

Bowers is not the only active caver at the Lab. Jay Smart and Keith Burris, both engineers with Electronics Engineering Technologies, also participate with the Diablo Grotto.

Anyone interested in caving with a grotto can find out more at www.caves.org, the internet home of the NSS. The Western region’s groups are listed at www.caves.org/region/western/grottos.html.

“There are some wonderful caves around here,” Bowers said. “But never go caving alone,” he insisted. “There are so many grottos that are so friendly and so active. They’ll make sure you have the technical training and enough people along to do it right.”

MEMO

Continued from page 1

role in securing America’s economic and national security. Many individuals of diverse backgrounds devote their careers and lives to contribute to the success of our department.

I am proud of the Department of Energy and its people. Thus, I am extremely concerned that allegations of racial profiling and discrimination have continued to surface, because these issues deal with fun-

damental fairness and affect the morale of our workforce.

Treating people differently and adversely, whether they are Department of Energy employees or the public, is wrong when it is based — either solely or in part — on race, ethnicity, and national origin. It is my firm commitment and policy for both federal and contractor employees that any practice of racial profiling be eliminated and prevented from occurring in the department. Where legal violations are present, they will be dealt with seriously and

aggressively. Furthermore, poor management practices are unacceptable even if they may meet minimum legal requirements. Managers throughout the Department of Energy are responsible for creating and maintaining a respectful and productive work environment free of profiling, discrimination and fear.

I ask all of you to contribute toward the full realization of our ability to work together — as I know we can — to make opportunities equally available to everyone.”

Inventory to begin for controlled, attractive items

The 2001 annual inventory of attractive and controlled personal property will begin Tuesday and conclude May 31.

Again this year, the inventory will be a statistical sample instead of a full wall-to-wall inventory. In 1999, LLNL and DOE/OAK agreed to a five-year inventory plan that calls for a statistical sample of the property database in the first four years and a full wall-to-wall inventory in 2003.

This agreement has significantly reduced the cost to inventory the Laboratory’s personal property while maintaining excellent results. LLNL’s inventory results must continue at this level to maintain DOE OAK’s concurrence for use of cost and time saving inventory methods.

The 2001 inventory sample is comprised of 1,645 attractive items with an acquisition value of \$3.4 million and 3,059 controlled items with

an acquisition value of \$309.9 million.

Property Center representatives will perform the inventory utilizing a variety of methods from bar code scans of the item to asking the custodian to confirm that the item is accounted for via e-mail.

Questions about the inventory should be directed to Rocky Darbee, 3-5538, or Hanif Nassor-Covington, 3-5487.



CLASSIFIED ADS

See complete classified ad listings at
<https://www.ais.llnl.gov/newsline/ads/>

AUTOMOBILES

1996 - Saturn GL 4-door
70K miles, air, power, moon-
roof, manual, ABS & dual
airbags, great shape.\$6500.
925-443-1113

1994 - Isuzu Rodeo,
Auto.,A/C,PS,Power
Windows/Locks Cruise
Control, AM/FM cas-
sette;85K Highway miles;
Clean, Good running condi-
tion. Asking \$7000/BO.
510-471-5740

1995 - Mustang GT
Convertible, Black w/ Tan
Top, Loaded,Leather, alarm,
56K mi, \$12,900 or BO 209-
823-5550

1992 - Honda Accord LX
Station Wagon, Orig Owner,
well maint., excellent shape,
Kelley BB \$7200, Asking
\$6500 OBO 925-447-3618

1995 - Ford F-150 Eddie
Bauer 4x4, 6 inch lift, 35
inch tires, Excellent condi-
tion, 71,000 miles. \$15,500
obo 925-443-8569

2000 - VW New Beetle GLS.
Silver/Black. 5 spd, power
moonroof, alloy wheels, 6
CD changer. 25K hwy miles.
31 MPG. \$17,250. Perfect!
510-836-2920

1989 - Colt Vista Wagon,
seats 7, 119K miles, some
body dents. \$1600. 925-
447-5208

1992 - Sedan Deville; 4-
door, White ext. w/Lt Grey
Leather int.; Fully-Loaded;
Excellent Condition. \$6,500.
925-679-2680

1993 - Acura Legend 4DRL,
Auto, Ivory Leather, Green
Exterior, Looks like new.
\$14K or BO 925-449-5078

1994 - Geo Tracker, magen-
ta with white conv. top.
Good condition, very good
gas mileage, 135k miles. All
service records. \$3500
925-679-9307

1956 - Chev 150, 2 Door
Sedan, yellow, new 355,
power steering, 4 speed, 9
inch ford rearend, new interi-
or & tires, centerline wheels,
\$15,000 firm. 209-239-1770

1996 - Mazda Protege, 5
spd., A/C, good cond., 73k
mi., \$6500, great commuter
or student car 925-454-8486

1995 - Plymouth Gr Voyager
LE. Loaded. Great condid-
tion. \$5750 or 925-829-8974

1987 - Camero, 86,630 orig
miles, recently smogged,
new trans/clutch, CD w/amp,
perf exhaust \$3500/BO 925-
373-0247

1985 - Mercedes 300D,
ivory, good condition. 113K
miles. \$2000 obo 209-473-
7764

2000 - VW Jetta GL-Silver w/
grey interior, CD changer, 5
spd man. trans.,keyless
entry, security, 16,000 miles.
4 cyl. 100k bumper to
bumper warranty. 925-855-
8368

1995 - Mercury Cougar,
Pearl white, tan leather
int.,very clean, loaded with

all the extras, low miles and
all maint records. \$9,500.
925-447-3695

1991 - Honda Accord Ex.
Wagon AM/FM Cass, sun
roof, new timing belt and
battery. One owner 171K mi.
\$5,700 925-447-4406

1993 - Oldsmobile Achieva
93, white, ABS, stereo,
good condition, original
owner, low Blue Book,
\$2900, call after 7pm, 209-
830-9784

1985 - Mazda RX7, 159KMi,
A/C, New Tires & CD, Very
Good Mech. Cond. \$2500
925-443-4349

1989 - Jeep Wrangler, Lift
and Chrome packages, new
tires and seats, bikini and
full top, alarm system,
removable AM/FM cassette,
\$6500/OBO 925-443-7480

1990 - Nissan Pathfinder
clutch parts. New in box.
Traded in vehicle, do not
need parts anymore. Cost
around \$300.00. Make offer.
209-835-5475

1995 - Mazda MX6,
60K,35mpg,GREAT condi-
tion,clean, 5-speed, New
tires, brakes and
alignment,power everything,
CC, AC, AM/FM cassette.
Must see. \$6000 925-447-
3133

1985 - Mustang Limited
Edition. New interior, com-
pletely service (lots of new).
White with Red interior.
\$7900 invested will take
\$5000. 925-989-6299

1999 - Porsche Boxter Conv,
Wht/blk lthr, 5spd, 3800 mi,
mint cond, 42K 650-522-
8208

AUTOMOBILE ACCESSORIES

15 Inch TIRES- (1)
225/75/R15 on 6 bolt rim,
good \$25; (1) 215/75/R15
excellent, and (1)
235/75/R15 very good \$20
each 925-447-7070

Headlamp for T-Bird \$15.00
925-443-1547

4 jack stands for auto
mechanics \$30, tuneup
meter \$20 925-736-7799

BICYCLES

Mens mountain bike, new
tires, excellent condition
\$125 925-736-7799

Yakima roof racks, lockable
Q towers, 58 in. bars, two
bike mounts with hardware.
\$100. 925-634-2701

BOATS

72 Glasspar 16ft w/65H
merc & trailer, up to date
tags. Runs great \$1700.00
or BO or trade for travel trail-
er. 925-449-1340

84 SeaKing 5HP 2 cycle
motor \$250 OBO. 209-234-
1366

8 foot fiberglass boat with
1.5 horsepower gas motor.
\$75 925-294-9810

ELECTRONIC EQUIPMENT

Compaq Presario system,
AMD-233 MHz, 40MB/3GB,
40x CD-ROM, 14in monitor,
Win95, \$175. 925-294-9022

HiEnd home theater system
\$400; N64 game
system+games \$250; Many
LP records, cassette tapes,
4 track tapes & quad player ,
make offer 925-736-7799

Kenwood TS-820S transceiv-
er, ext VFO-230, MC-50 desk
mic, sold as set \$550. PRO-
37 programmable handheld
scanner, 30-960 MHz,
almost new, \$80. 925-462-
5202

PowerMac 4400/200, 20Gb
HD, 96 Mb ram, external CD-
R, external zip, 14 inch mon-
itor. \$500, or \$400 without
monitor. Great computer for
young teen. 925-447-1833

Tokina AT-X 300mm 2.8 lens.
Nikon mt. with Nikon TC-14
teleconverter and bogan
Monopod. \$1500 209-823-
8822

GIVEAWAY

Hot tub - 5 person tub, shell
in good condition. needs new
pump and misc repairs. 209-
824-1076

FREE hot tub! Electric Cal
Spa, 8 foot, you haul away
925-455-8006

HOUSEHOLD

Blue & white country plaid
Sofa & Loveseat, 3yrs, \$450.
Solid oak table, 2 leaves & 5
ladderback chairs, \$450.
925-294-9022

Refrigerator/freezer. Side-by-
side. Ice-maker. Off-white.
Runs good. \$135. 925-443-
5213

Modern solid walnut desk
(\$125), Sony 17in TV (\$100),
Electrostatic room airpurifier,
relief for allergy sufferers
\$95 925-736-7799

Sony 5-disc carousel.
Remote control and can
open disc tray to exchange a
disc while playing. Have orig.
owners manual.\$75 925-443-
9110

Oak Entertainment Center
5ft w. x 5ft-2in h. x 1ft-11in d.
w/32in w. x 27-3/4in h. 22-
1/2in d. TV opening w/doors,
leaded glass \$250 obo 510-
537-0698

7 PIECE GIRLS BEDROOM
SET: White with gold trim.
Desk, headboard/footboard,
two dressers, vanity, match-
ing chair, nightstand.
Excellent cond. \$650 925-
447-1697

Danish Modern bookcase,
exc. condition, \$200 or trade
for queen size mattress and
springs. 925-447-4961

Cherrywood dining rm:
hutch, table w/leaf, 6 chairs.
Used for 6 months-\$900/obo
King black iron head/foot-
board, 1 yr. old - \$100/obo
925-373-3525

Refrigerator (2) Older mod-
els, freezer on top, fair con-

dition, they both work.
\$50.00 each. Call after 4:30
pm. 925-449-0430

Master suite: Cal King head
board, 2 night stands, chest,
dresser w/mirror \$875 OBO
209-824-8750

All great condition: Large
Capacity Dryer-\$75;Semi-for-
mal off-white living rm sofa &
sofa chair \$250;off-white
family rm sofa & loveseat
\$300 209-983-0877

Entertainment Center, Dark
Oak 54Lx24Wx48H with
glass door for sterio, VCR
and DVD. \$200 Call Dennis
925-443-3467

Queen size Hide-a-Bed.
Good condition. \$125 209-
239-2737

SOFA AND LOVESEAT. Only
10 months old, perfect condi-
tion. Attractive color and tex-
ture. Perfect match for light
brown carpet color. Both for
\$300/BO. 510-690-1258

MISCELLANEOUS

Acura Legend taillight
assembly from e84 car, left.
\$35 925-447-7070

Cadence Treadmill
Model#WLT11092 \$150.00
925-606-9847

NAPCO Commercial burglar
alarm control boxes, 3 avail-
able, make offer, Motorola
Mobile (analog)
phone+charger \$25 925-736-
7799

98 DEGREES & BAHA Men
-- Floor tickets @ Concord
Pavilion - Sun May 6/01 ...
Sec 1 Row EE. \$75/ticket
obo. 925-548-4040

Tablesaw, 10-inch,
Craftsman, has fence, miter,
extensions, and stand.
\$30.00. 925-447-6099

GARAGE SALE - 925 Dublin
Ave, LIVERMORE, April 28,
9:00 AM - 3:00 PM. LOTS of
Great Items!! 925-373-0751

Drafting table. Tilts and ele-
vates. Very sturdy. \$75.00
OBO. 925-456-3010

Linda Evans Fitness Center
Contract (Pleasanton). Nine
months left on contract.
\$29.00 month, you take over
contract. 925-454-9627

Bridal Gown/matching head-
piece and veil/other acces-
sories. Mon Cheri, Sz. 8,
white. Asking \$500. 209-
836-2511

4 scales and 2 cash regis-
ters used at fruitstand.
Make offer. 209-824-8750

10 inch Craftsman table saw
- 14 amp, \$250.00/OBO 209-
571-3432

Used medical supplies and
equipment will be sent to
Red Cross clinics in
Torreon,MX.Tax receipt avail.
925-447-7394

GIANTs Tickets available for
various games. Two seats
per game for \$32. 925-484-
0716

BAR CHAIRS - 3 oak swivel
with backs. Need refinishing.
\$30 all/obo 925-294-8401

Office desk, HON, single
pedestal with file drawer,
steel, tan with dark brown
top, \$45 209-832-3331

Beanie Baby Bears Blow Out
Sale. Have lots of duplicates.
Call for the one you are
looking for. Most at only
\$10.00 209-234-2050

Executive desk, and corner
unit computer desk. Great
condition! \$125.00 takes it
all. 209-892-6814

Ford 8N tractor with two-
blade plow. \$2,000/BO 707-
823-4459

98 DEGREES @ the
Chronicle Pavilion - Floor
Seats - May 6/01 ... Sec 1
Row EE \$85/ticket or best
offer for all four. 925-413-
3274

Luggage, 3 piece matched
set with wheels, Samsonite
hard side. Used once. 925-
447-4999

Century bassinet, \$25.
Medela motorized breast
pump with carrying case,
\$100. 209-473-7764

Doghouse for large dog -
\$40/obo 925-371-5576

Briefcase, soft black leather.
Handle & shoulder strap.
Many pockets, great for trav-
el too. Rarely used. Paid
\$100, sell \$45. 209-606-
4891

Samsonite briefcase.
Hardshell, 5 inches deep,
black. Excellent condition.
\$55 obo. 925-447-8845

Linoleum-new/white/beige for
laundry or bath room/see
offer. 11x14 coffee color
rug/ideal for cabin or? 925-
735-6002

Computer games, Command
and Conquer series, never
been played in original box
w/ manuals. Set comes with
5 games, including Red
Alert, \$20. 925-443-7817

FIRE WOOD, almond,~1/4
cord. Cut, split, and sea-
soned (dry). Livermore.
\$50.00 + you haul. 925-449-
5667

MOTORCYCLES

1999 - Black Honda Super
Hawk 8700 miles, great
condition, alarm. \$6900
925-980-1075

1988 - BWM K100LT, only
11K miles, tobacco
brown/beige seat, all bags,
garaged and covered, new
Metzlers, \$6,250. 925-846-
1459

1983 - Honda Silverwing
GL650, windscreen, shaft
drive, liquid cooled, 18.5k
mi., Excellent Condition.
\$1400. 925-828-2609

2000 - Kawasaki Drifter
800cc. New condition, hiway
lights & engine guards.
Fast,fun and turns alot of
heads. 1946 Indian Chief
replica. \$5800. 209-525-
9313

1971 - 1971 Yamaha 360
2cycle Enduro. Clean low
miles. \$500. New tires.209-
239-2812

See complete classified ad listings at
<https://www-ais.llnl.gov/newsline/ads/>



1995 - KZ1000P, former CHP bike. Good shape, have two can only ride one. \$2000/obo. 925-989-6299

PETS & SUPPLIES

Blue Front Amazon, lg. cage and all accessories. Talks. Sweet, but independent too. Going to school, can not handle 2 birds any longer. \$600. 925-294-8632

Border Collie mix puppies. Seven weeks old. \$20 209-862-3458

Border Collie/Queensland Heeler mix, 1-1/2 yr. male, neutered/all shots, needs room to run and someone to play with. Good home only, small fee. 925-606-9129

RECREATION EQUIPMENT

Beginners golf clubs set&bag \$45, Legos set for kids, many pieces and board \$45 925-736-7799

1985 Vacationeer 11 1/2 ft. truck camper. Fully self-contained. Excellent condition inside and out. Must see. \$4,500.00 firm. 925-456-3010

Golf clubs and bag \$50, 2 Prince Pro tennis rackets \$20 each, weight bench with weights \$25. 209-835-8791

Portable air tank 12 gallon with 25 foot hose, plus various nozzles. \$25/offer 209-576-0299

Roller Blades - Womens size 8 1/2; good condition. For Sale: \$20.00 925-240-0678

Motorhome, 1982, 25 ft Class A Titan. 90K well maintained miles. Original owner. New radiator. Runs well, forced to sell. \$8900 OBO. 925-846-2119

96 Damon UltraSport 28ft Motorhome. Too many extras to list here. See RV in Lab parking lot A-8 (B.181). 33K miles. \$32,500 obo. 209-835-4969

Total Gym, \$250. Nordic Track \$125. Both pieces hardly used and like new condition. Prices negotiable. 209-529-1809

1990 Holiday Rambler 30 foot, fully loaded \$22,500/obo 454 Chevy eng. 925-447-9179

20% Share in 1977 T-210. 2250hrs. NDH. King radios, Autopilot Hangared at LVK 925-443-8831

RIDESHARING

Express your commute, call 2-RIDE for more information or visit the web site at <http://www-r.llnl.gov/tsmp/> for more information

Modesto - Vanpool needs one rider - \$115.00/month. Leave at 6:40 a.m. from Crossroads Mall at Carpenter and Kansas. Leave Lab at 4:45 p.m. 209-576-0217, ext. 2-7459

Modesto - Space available

on 14 passenger luxury van-pool, 8-4:30 schedule, \$110/month. 209-521-9047, ext. 2-5177

SERVICES

PARENTS troubled by TEEN behavior? What to do now, before too late? Free info on ToughLove, & Residential Treatment Facilities. (LLNL Meeting) 925-447-7070

Exterior Painting - Over 15 yrs experience. Free estimates and discount on paint. 925-447-5132

Roofing, 28 yrs experience, fully insured 925-454-9200

SHARED HOUSING

Manteca - Furnished room in Rural area with full house privileges for rent. \$300/250 dep. 209-823-0454

Modesto/Ceres border - roommate wanted: Move in betwn July 1st&15th, \$350.00/month +1/2 utilities, reas. house priv., separate bath, male pref. n/s. Pets negotiable. 209-522-4741

Byron - Two rooms for rent.\$850.00 per month includes utilities.Includes private bath. 925-980-5240

Modesto - Renter wanted, non-smoker, n/d, house privileges, w/d, garage parking, \$450. per month. 209-492-0270

TRUCKS & TRAILERS

1999 - 1999 - Dodge Diesel pick, Silver, 40K miles, fully loaded, with shell, 24 foot slide out 5th wheel, like new \$47,000.00. 209-892-3418

1993 - Dodge Dakota LE, club cab V8 2WD, AT, AC, PW, PDL, PS, CC, AM/FM cass, bed liner, new tires/brakes. \$6,500 209-823-1277

1990 - Toyota 4-Runner Blue 2dr V6 4x4 cruise control,cassette,roof rack,good condition,new tires,no A/C,144,000 freeway miles,90-95 body style,\$7000 obo. 925-449-7664

1997 - Emerald green Dodge Ram 1500, short bed, club cab, bedliner, stepbars, tiedowns ~86K/mi KBB Retail \$14320 Asking 13000. 925-634-2798

1994 - Mazda B3000 Extended cab. Ex condition, A/C, A/T. \$6900 or B/O 209-836-3969

1972 - Dodge 3/4 ton, 400, auto, \$1,200.00 OBO. 925-456-3010

1995 - Motorhome-Thor Residency 36feet, Diesel Cummins. Excellent condition. Call for details. Can view at our home in Livermore. \$76,000.00. 925-449-0430

1994 - Jeep Wrangler htdp; excellent condition; low mileage (53K); new tires; roll bar w/audio speaker; \$11K

925-932-7511

1987 - S-10 pickup,2.8L,at,ac,shell, runs great, 260k highway mi, \$2100 b/o 209-786-2245

1987 - 22Ft. Motorhome Class C, Ford 460cc, AC, PS, PB, CD Stereo FULLY SELF CONTAINED 70k miles Solar Panels, tub/shower, oven/range. VERY CLEAN \$9,500 408-499-3312

1996 - Dream Machine 1996 Holiday Rambler Endeavor LE,230 cummins engine,38ft.long,super slide out, basement model,18000 miles,call after 6:00 pm. 209-234-3188

1988 - 4X4 F-150 Lariat, 351 V-8 engine, automatic trans, limited slip differential, trailer package, camper shell, power windows and locks. \$2950 925-778-7390

1992 - Chevy Silverado 1500 2WD, 5.7 V8, AT, PW, PDL, PS, CC, tow package, new tires, new factory transmission, excellent condition, 98K miles. \$10,200 OBO 925-443-7544

1996 - Damon UltraSport 28ft Motorhome. Too many extras to list here. See RV in Lab parking lot A-8 (B.181). 33K miles. \$32,500 obo. 209-835-4969

1996 - Dodge Ram 1500 extended cab 4x4, Silver, 60k miles, elec-window,seat,locks, ac,shell,liner. \$16k,excellent condition 209-833-9561

1991 - WANTED: Camper shell to fit 1991 Toyota standard size pickup. 510-581-4609

1983 - K5 GMC Blazer 6.2 Liter PW,PL,Tilt,Cruise, AC,AM/FM/Cassett Player,KC Lights,Roof Rack. Paint about 3yrs old. Looks and runs great. \$4000 or B.O. 925-373-8360

1993 - Chevy 3/4T 4x4 136000mi,350,5sp,Loaded,green,good condition \$9500.00 925-454-1749

1952 - Ford Pick-Up Parts - hood, fenders, speedometer, et al. Total estimate @ \$7,000. Will take biggest offer or will sell piece parts. 209-835-5475

1976 - Ford F-250 extended cab. Runs good \$1200.00 or B/O. 209-577-5805

1978 - GMC, 35-value one-ton step van, 21 feet with inside shelving. \$3,000 925-462-7726

VACATION RENTALS

Puerto Vallarta, Mexico - 1 Bedroom luxury oceanfront condos w/all amenities. Gorgeous view, private beach, large pool. 209-832-4354

Sea Ranch - Oceanview home. No smoking. No pets. Adults only. 2BR(KQ)/2BA 1700sqft. Hike. Bike. Whale watch. Kayak. Swim. Tide

pool. HTTP://come.to/sear-anch 925-443-5086

Soda Springs/Donner Summit, Classic rustic A frame, 2BR/1BA+Loft, sleeps 8, Walk to Royal Gorge, 5 min to Sugar Bowl \$250 wknd 209-836-3481

SOUTH LAKE TAHOE - 3 Bedroom 2 Bath Chalet, nicely furnished, all amenities,Homeowners park w/Lake,tennis etc.,Enjoy Offseason!SPRING RATES! Reserve Now for Summer! 209-599-4644

Twain Harte - Fully furnished.2bdr 2full bath.Washer,dryer,microwave ,cable TV,VCR,dishwasher and more.Close to Pinecrest Lake.\$150wknd \$300wk. 925-443-2808

HAENA, KAUAI - - Private house and/or studio on the scenic north coast near Hanalei Bay - great beaches, hiking, boating and golf. House-\$125/day, studio-\$75/day. 831-479-3441

Maui, HI - Kahana Reef oceanfront 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs. Low LLNL rates for year-round reservations. 925-449-0761

Maui oceanfront condo, ocean view, beautiful white sandy beach, pools, tennis, snorkeling, whale watching. Low LLNL rates. 925-846-1459

Kailua-Kona, Hawaii - - north side of Keauhou Bay, Big Island. 96 steps to the beach and water. Pictures available. Lab employee rate \$70/day. 1engineer@home.com 925-373-0137

Kihei, Maui - 1, 2, & 3 Bedroom Oceanfront Condos w/all amenities. Gorgeous View, Large Pool, Tennis Courts, BBQ, Excellent Location. Low LLNL Rates. 925-846-8405

WANTED

Wanted. Old Honda CB750

Motorcycle for restoration project. (Running or not) Please call Tom. 925-449-5441

Looking to buy used precision/machining tools and roll away. 925-487-5985

House Sitting. 925-449-4326

Thomasville Stone Creek ladder-back side chairs, rus-set finish. 925-846-8264

Camper or Pop-up Trailer, Reasonable. 925-447-4961

Canoe, in good condition. 209-832-2846

Looking for a short-term sub-let for a new lab employee for the first two weeks of June. 510-663-7403

Wanted: Moving boxes - cheap or free. 925-294-8401

Economy car 150000 or less miles good condition. 928-455-9342

Wanted. Violin shoulder rest. Play-On-Air model. 925-455-4970

VCR, working with at least 66 channels. Remote control desirable. Older model O.K. Will make offer, up to \$20.00 925-443-7729

Wanted, person to do quality housecleaning once every other week. 925-443-1714

Tickets for Athletics vs. Texas Rangers for June 22th, 23rd or 24th 2001. 925-447-5455

Runners needed for coed running club/team located in east bay area. Club focus is competition with a good balance of social activities. 925-449-8341

84 Honda civic automatic, running or not, I have spare engine. 209-531-1527

Need large dog crate for obedience training. Should be able to fit a large lab. Willing to pay reasonable price. 209-599-1564

Costume or junk jewelry(no plastic please) wanted for craft projects. Need not be in wearable condition....925-462-1548

Guidelines

Newsline is not responsible for any errors contained in the classified ads. It is up to the employee to proofread his or her ad to make sure it contains the correct data, including the phone number.

Employees are reminded that only car- and vanpool ads may contain Lab extensions. E-mail addresses are not allowed.

Due to space limitations, Newsline cannot run ads that are submitted in all capital letters. “Personals” ads are not permitted either.

Employees may submit one ad per category, but may not include the same ad in more than one category.

Ads may only be submitted through the Employee Ads Web Services site <https://www-ais.llnl.gov/newsline/ads/>



THE BACK PAGE

KECK

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is scheduled for use in several of the world's major telescopes within the next few months, including Kitt Peak in Tucson, Ariz., and possibly the South African Large Telescope (SALT) and, in the more distant future, the California Extremely Large Telescope (CELT).

Thomas explained, "These large telescopes typically involve five or six reflections from coated mirrors, which affect the collection efficiency. Our coating is going to give each mirror a consistent 97 percent reflectivity. Previous coatings provided about 90 percent reflectivity. Combine the effect from several mirrors, and we may have up to 35 percent increased collection efficiency for many years from each of these large telescopes."

This coating is also being installed to protect the thousands of mirrors to be used in the NIF flash lamps, according to Wolfe. "Many intense hours, many of them volunteer, have paid off in a revolutionary protection for NIF, the world's top astronomical observation equipment and components of the international space station."

"In fact," added Thomas, "this project began in support of NIF, then funding was secured from NASA, the Air Force and Lockheed-Martin due to the great potential for use in both the Hubble telescope and the Spaced-Based Laser program."

When Wolfe and Thomas' samples of their new silver coating go with the shuttle to the International Space Station this June, they will travel in a small suitcase with samples of other materials being tested for space applications. An astronaut will have to take the



MARCIA JOHNSON/TID

Sven Breden, Joel Buck, Jesse Wolfe, Dave Sanders, Kevin Moffitt, Norman Thomas, Gary Loomis and Randy Barksdale (from left) are among the team members who worked on a new coating process for telescopic mirrors.

suitcase out by hand in an extra-vehicular activity (EVA) mission, and secure it in the initial test area.

In this experiment known as MISSE (Materials on International Space Station Experiment), the various samples will be tested in one- and three-year periods, exposed in both the ram and leeward directions, in full sunlight and in the earth's shadow.

Other control samples will be tested during the given times for degradation during storage on earth. They must show sufficiently low rates of degradation over a useful period to qualify for service on the space station and other space-based applications.

Wolfe and Thomas have been pursuing this project for over three years, but have had their work involved with space missions before, as scientists for Optical Coating Laboratory, Inc. in Santa Rosa. In 1984, shuttle astronauts placed some of their samples in the Long Duration Exposure Facility, an orbiting framework used for the testing of various materials in space. The samples were retrieved in 1990, and results helped lead to this latest invention.

Booklets will detail what employees need to know about ISSM

Booklets introducing Integrated Safeguards and Security Management will be mailed to all employees on April 30.

Gen. John Gordon, administrator for the National Nuclear Security Administration, called for the implementation of Integrated Safeguards and Security Management in a recent memo to all NNSA federal and contractor employees.

Director Bruce Tarter discussed ISSM as a way to enhance security practices at the Lab in a Director's Column in last week's *Newsline*.

All employees are asked to look over the booklet. In addition to a forward by Tarter and the Gordon memo, the booklet explains what ISSM will accomplish, a framework for ISSM and a schedule. Also included are ISSM points of contact and security representatives. A Website has also been established. For more information on ISSM, see <http://www.security.llnl.gov/SSDPub/SSP/SSP.HTML>



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via the Accelerated Strategic Computing Initiative, "excellent technical progress" on the National Ignition Facility, the success of the Counterproliferation Analysis and Planning System, and continued U.S.-Russia collaborations to secure at-risk Soviet-legacy nuclear materials.

Despite such notable achievements, a number of the national laboratories' threat reduction programs are facing major funding cuts, Tarter said. "The future of some of these activities will depend on high-level reassessments currently under way by the Administration," Tarter said. "Others will depend on establishment of better understanding of their importance in the overall threat reduction strategy and our confidence in overcoming the sheer difficulty of the technical challenges they entail."

Of greatest concern, Tarter said, are the nonproliferation and verification research and development programs. These programs provide the science and technology base for the U.S. agencies with operational responsibility for characterizing foreign weapons programs and detecting proliferation-related activities, for detecting and mitigating the use of weapons of mass destruction against U.S. civilians, and for negotiating and monitor-

ing compliance with arms-reduction and other agreements. "Because the threat is continually evolving, as adversaries employ more sophisticated denial and deception and as more detailed treaties are negotiated, we must continually push the technical state of the art to develop new capabilities," Tarter said.

"The importance of these programs has been recognized by the Congress in the last two years, when it markedly increased funding for these activities above the president's request."

For FY2002, however, the budget line is slated for a 25 percent cut in operating funds, which will have a significant impact on delivery of the capabilities that are being developed by these programs, Tarter added.

The Stockpile Stewardship Program's success has depended upon continued strong support from Congress and the dedicated efforts of the people working within the program, Tarter said. "The first real test of this program," as Adm. Richard Mies, U.S. STRATCOM commander in chief said of the formal certification of the W87, is the most recent proof of the need for continued congressional support, Tarter cited.

"It is fair to say we passed, but the test was not easy," Tarter said of the W87 certification. "As weapons continue to age, the tests will get harder and our capabilities to answer questions need to improve. Acquisition of

these capabilities is time urgent to meet existing requirements for weapons refurbishment and to deal with other weapon performance issues that might arise.

"Additional support in FY2002 would help relieve a number of stresses that are arising as the program continues to mature and face greater tests."

Tarter concluded by re-emphasizing the dependence on R&D to ensure continued success of U.S. threat reduction efforts. "With greater technical capabilities, the United States can better monitor compliance with arms-reduction and other agreements," Tarter explained. "Sustained support for cutting-edge research and development, at current funding levels at least, is essential to counter the wide range of WMD threats."



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SURVEY

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Wadsworth. "I think we have a good instrument here that addresses a broad range of workplace and work/life balance issues. I hope that all employees will take advantage of this opportunity to contribute their opinions and thoughts, which will help shape the future of their workplace."

"In order for us to make positive impacts, we must know what you think about your work environment and quality of life at the Lab," Bruce Tarter said in

announcing the survey back in January.

The Web-based survey will be available from May 29 through June 22. For those unable to fill out the survey online or who would prefer to do it on paper, survey booklets will be available as an option starting May 29.

The survey should take no more than approximately 30 minutes to complete. The survey will collect data that will permit trend analyses, benchmark comparison with other laboratories and companies and LLNL's 1995 survey, and clarify and lead to prioritizing Lab-specific issues.